Preliminary Classification:

Proposed Class:

Subclass:

NOTE:

"All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand comer of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129." M.P.E.P. § 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Director of the U.S. Patent and Trademark Office Mail Stop PATENT APPLICATION P.O. Box 1450 Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Matti FLOMAN and Jani KLINT

WARNING: 37 C.F.R.§ 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(l) is filed supplying or changing the name or names of the inventor or inventors."

For (title): Memory With Single and Dual Mode Access

CERTIFICATION UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date, <u>April 19, 2004</u>, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number <u>EV 435648613 US</u>, addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

> Annemarie Maher ər print name of person

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" **WARNING:**

mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed.

Reg. 56,439, at 56,442.

1. Type of Application This new application is for a(n) (check one applicable item below) ☑ Original (nonprovisional) Design □ Plant **WARNING:** "Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 37(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application. WARNING: Do not use this transmittal for the filing of a provisional application. If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION. Divisional Continuation Continuation-in-part (C-I-P)

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designated the United States of America; or
- (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120,121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 199, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

WARNING:		Fede bene	When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).					
			app TR/	e new application being transmitted claims the benefit of prior U.S. dication(s). Enclosed are ADDED PAGES FOR NEW APPLICATION ANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) AIMED.				
3.	Pap	oers	End	closed				
	<u>13</u>	1.1: _ Pa _ Pa	53 (I ges ges	quired for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 53 (Design) Application ges of specification ges of claims eets of drawings				
	WA	RNIN	G:	G: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standard according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments of proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).				
	NOTE:		inve a pe infor	ntifying indicia, if provided, should include the application number or the title of the ntion, inventor's name, docket number (if any), and the name and telephone number of irson to call if the Office is unable to match the drawings to the proper application. This mation should be placed on the back of each sheet of drawing a minimum distance of cm (5/8 inch) down from the top of the page " 37 C.F.R. § 1.84(c)).				
				(complete the following, if applicable)				
	_		"PE	e enclosed drawing(s) are photograph(s), and there is also attached a STITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 S.R. § 1.84(b).				
			and	e enclosed drawing(s) are in color. Three (3) sets of color drawings a "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 i.R. §§ 1.84(a)(2) and 1.84(b).				
		X	forn info	nal rmal				
	B.	Oth	er P	apers Enclosed				
	<u>0</u> <u>1</u> <u>0</u>	_ Pa		of declaration and power of attorney of abstract				
4.	Ade	Additio		papers enclosed				
				ment to claims				
				in this application claims before calculating g fee. (At least one original independent claim must be retained for irposes.)				
		bee		claims shown on the attached amendment. (Claims added have umbered consecutively following the highest numbered original				

		Pre	liminary Amendment							
		Information Disclosure Statement (37 C.F.R. § 1.98)								
		☐ Form PTO-1449 (PTO/SB/08A and 08B)								
		Cita	ations							
		Declaration of Biological Deposit								
		am	omission of "Sequence Listing," computer readable copy and/or endment pertaining thereto for biotechnology invention containing leotide and/or amino acid sequence							
			horization of Attorney(s) to Accept and Follow Instructions from presentative							
		Spe	ecial Comments							
		Oth	er							
5.	Dec	clara	ation or oath (including power of attorney)							
	TE:	A net that bein mate applicate under decin a 37 C	welly executed declaration is not required in a continuation or divisional application provided the prior nonprovisional application contained a declaration as required, the application g filed is by all or fewer than all the inventors named in the prior application, there is no new er in the application being filed, and a copy of the executed declaration filed in the prior ication (showing the signature or an indication thereon that it was signed) is submitted. The must be accompanied by a statement requesting deletion of the names of person(s) who not inventors of the application being filed. If the declaration in the prior application was filed at § 1.47, then a copy of that declaration must be filed accompanied by a copy of the sion granting § 1.47 status or, if a nonsigning person under § 1.47 has subsequently joined prior application, then a copy of the subsequently executed declaration must be filed. See C.F.R. §§ 1.63(d)(1)-(3).							
		whic give resid	which it is directed, identify each inventor by full name including family name and at least one given name, without abbreviation together with any other given name or initial, and the residence, post office address and country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)-(4).							
NOTE:		deci oath appi to § is fi	e inventorship of a nonprovisional application is that inventorship set forth in the oath or aration as prescribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). If an or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional ication, the inventorship is that inventorship set forth in the application papers filed pursuant 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(l) ed supplying or changing the name or names of the inventor or inventors." 37 C.F.R. § (a)(1).							
			Enclosed							
			Executed by							
			(check all applicable boxes)							
			□ inventor(s).							
			☐ legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.							
			$\hfill \Box$ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.							
			☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F. R. § 1.47 is also attached. See item 13 below for fee.							
		X	Not Enclosed							

NOTE:	com App may	pletio licatio / be, u	e filing is a completion in the U.S. of an International Application or where the n of the U.S. application contains subject matter in addition to the International n, the application may be treated as a continuation or continuation-in-part, as the case tilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT R U.S. APPLICATION CLAIMED.
			Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of <i>all</i> the above named inventor(s).
(The	e dec	larati	ion or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can b filed subsequently).
			□ Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))
6. In	/ento	orshi	p Statement
WARNII	VG:	the c	named inventors are each not the inventors of all the claims an explanation, including ownership of the various claims at the time the last claimed invention was made, should submitted.
The in	vento	orship	o for all the claims in this application is:
	The	e san	ne.
			or
			same. An explanation, including the ownership of the various claims me the last claimed invention was made,
		is s	ubmitted.
		will	be submitted
7. La	ngua	age	
NOTE:	Eng of \$	lish. 130.0	ation including a signed oath or declaration may be filed in a language other than An English translation of the non-English language application and the processing fee 0 required by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within as may be set by the Office. 37 C.F.R. § 1.52(d).
	☒		English Non English
			The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).
8. As	sign	men	t
	X	An a	assignment of the invention to Nokia Corporation
			is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.
		X	will follow.
NOTE:			signment is submitted with a new application, send two separate letters-one for the n and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).

(New Application Transmittal [4-1] page 5 of 11)

VVARINII	vG:							1993, 1150 OG
				divisional ap				ent document
						Reel_		
						Frame		
9. Ce	rtifie	d Copy						
Ce	ertified	d copy(ies) of applica	tion(s)				
Co	untry	,		Appl	n. No.	. ,		Filed
Co	untry			Appl	n. No.			Filed
from w	hich	priority is	claimed:					
		is (are) at will follow					•	
NOTE:	or de This pare unde item	eclaration. 3: item is for nt U.S. app er 35 U.S.C. 18 on the	7 C.F.R. § 1.5 any foreign p lication or In: § 120 is itsel ADDED PAGI	5(a) and 1.63. riority for which ternational Appl If entitled to prio	the app ication t rity from	nlication being from which the n a prior foreig	filed directl is application	red to in the oath by relates. If any on claims benefit n, then complete HERE BENEFIT
10. Fe	e Cal	culation	(37 C.F.R.	§ 1.16)				
A.	X	Regu	lar applica	lion				
				CLAIMS AS	FILE)		
Number filed			Number Extr	a	Rate	37 C.F.	Basic Fee R. § 1.16(a) \$770.00	
Total C (37 C.I			23 - 20 =	3	x	\$18.00 =		54.00
		t Claims 3 1.16(b))	2 - 3 =	0	×	\$86.00 =		
		endent cl c.F.R. § 1.			+	\$290.00		
		Amendm	ent deleting	ng extra clain g multiple-dep is not being	pender	ncies is enc	losed.	
NOTE:	ame	ndment, pri	or to the exp		ime pei	riod set for re	esponse by	aims canceled by the Patent and
		Filing	Fee Calcu	ulation			\$_	824.00

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В.		Design application (\$310.00 – 37 C.F.R. § 1.16(f))
		Filing Fee Calculation \$
C.		Plant application
		(\$480.00 - 37 C.F.R. § 1.16(g))
		Filing Fee Calculation \$
11. Small	Entit	y Statement(s)
		ent(s) that this is a filing by a small entity under 37 C.F.R. §§ 1.9 and (are) attached.
WARNING:	whice pates which has divise appoint the transfer of the desired control of the desired control of the transfer of the desired control of the pates	tus as a small entity must be specifically established in each application or patent in the status is available and desired. Status as a small entity in one application or not does not affect any other application or patent, including applications or patents the are directly or indirectly dependent upon the application or patent in which the status been established. The refiling of an application under § 1.53 as a continuation, icon, or continuation-in-part (including a continued prosecution application under § (d)), or the filing of a reissue application requires a new determination as to continued lement to small entity status for the continuing or reissue application. A nonprovisional ication claiming benefit under 35 U.S.C. § 119(e), 120, 121, or 365(c) of a prior ication, or a reissue application may rely on a statement filed in the prior application or e patent if the nonprovisional application or the reissue application includes a reference estatement in the prior application or in the patent or includes a copy of the statement reprior application or in the patent and status as a small entity is still proper and red. The payment of the small entity basic statutory filing fee will be treated as such a rence for purposes of this section." 37 C.F.R. § 1.28(a)(2).
WARNING:	state	all entity status must not be established when the person or persons signing the. ement can unequivocally make the required self-certification." M.P.E.P., § 509.03, 6 th rev. 2, July 1996 (emphasis added).
		(complete the following, if applicable)
		Status as a small entity was claimed in prior application, filed on, from which
		benefit is being claimed for this application under:
		35 U.S.C. § □ 119(e), □ 120, □ 121, □ 365(c),
		and which status as a small entity is still proper and desired.
		☐ A copy of the statement in the prior application is included.
		Filing Fee Calculation (50% of A , B , or C above)
		\$
	are file	cess of the full fee paid will be refunded if a small entity statement and a refund request d within 2 months of the date of timely payment of a full fee. The two-month period is endable under § 1.136. 37 C.F.R. § 1.28(a).
12. Reque	est fo	r International-Type Search (37 C.F.R. § 1.104(d))
		(complete, if applicable)
		prepare an international-type search report for this application at the sen national examination on the merits takes place.

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13. Fee Payment Being Made at This Time

X	Not Enclosed							
	☑ No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § 1.16(e) can be subsequently.)							
	Enclosed							
		\$						
		Recording assignment (\$40.00 – 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.")	\$					
		Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached. (\$130.00 - 37 C.F.R. §§ 1.47 and 1.17(i))	\$					
	□ [′]	For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$					
		Processing and retention fee (\$130.00, 37 C.F.R. §§ 1.52(d) and 1.21(l))	\$					
		Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$					
NOTE:	OTE: 37 C.F.R. § 1.21(I) establishes a fee for processing and retaining any application abandoned for failing to complete the application pursuant to 37 C.F.R. § 1.53(f) and the as the changes to 37 C.F.R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the a prior U.S. application, either the basic filing fee must be paid, or the processing and fee of § 1.21(I) must be paid, within 1 year from the notification under § 53(f).							
	Tot	tal fees enclosed	\$					
14. Me		d of Payment of Fees						
	☐ Attached is a ☐ check ☐ money order in the amount of \$							
	Authorization if hereby made to charge the amount of \$							
		to Deposit Account No						
		to credit card as shown on the attached credit card inform authorization form PTO-2038	mation					
□ in		arge any additional fees required by this paper or credit any o manner authorized above. A duplicate of this transmittal is a						
NOTE:	Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b).							

(New Application Transmittal [4-1] page 8 of 11)

15. Authorization to Charge Additional Fees

WARNING:		If no fees are to be paid on filing, the following items should <u>not</u> be completed.					
WARNING:		Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.					
		The Commissioner is hereby authorized to charge the following addition fees by this paper and during the entire pendency of this application Account No					
			37 C.F.R. § 1.16(a), (f), or (g) (filing fees) 37 C.F.R. § 1.16(b), (c), and (d) (presentation of extra claims)				
NOTE:	pres the 1.16	entation time p (d)), is	additional fees for excess or multiple dependent claims not paid on filing or on later on must only be paid or these claims canceled by amendment prior to the expiration of period set for response by the P.T.O. in any notice of fee deficiency (37 C.F.R. § t might be best not to authorize the P.T.O. to charge additional claim fees, except when dealing with amendments after final action.				
			37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)				
			37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a))				
			37 C.F.R. § 1.17 (application processing fees)				
WARNING:		for its length require time is parage treated petitics	written request may be submitted in an application that is an authorization to treat any urrent or future reply, requiring a petition for an extension of time under this paragraph is timely submission, as incorporating a petition for extension of time for the appropriate h of time. An authorization to charge all required fees, fees under § 1.17, or all ited extension of time fees will be treated as a constructive petition for an extension of in any concurrent or future reply requiring a petition for an extension of time under this graph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be ed as a constructive petition for an extension of time in any concurrent reply requiring a confor an extension of time under this paragraph for its timely submission." 37 C.F.R. § 5(a)(3).				
			37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))				
NOTE:	mail	ing of	authorization to charge the issue fee to a deposit account has been filed before the fa Notice of Allowance, the issue fee will be automatically charged to the deposit the time of mailing the Notice of Allowance. 37 C.F.R. § 1.311(b).				
NOTE:	to sr is be n	nall ei sue fe nade e	§ 1.28(b) requires "Notification of any change in status resulting in loss of entitlement nitly status must be filed in the application prior to paying, or at the time of paying, . se." From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must even if the fee is paid as "other than a small entity" and (b) no notification is required if e is to another small entity.				

16. Instructions as to Overpayment

Customer No. 004955

NOTE:	"Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).							
		Credit Account No						
		Refund						
		•						
Date: A	April	il 19, 2004	Jed Janely					
Reg. No	o. 2	27,550 SIGNA	TURE OF PRACTITIONER					
Tel. No	. (20	03) 261-1234 (type o	Alfred A. Fressola or print name of practitioner					
		<u>& Ado</u>	Fressola, Van Der Sluys Iphson, LLP					
		P.O. (6	Correspondence) Address					
			ng Five, Bradford Green ain Street, P.O. Box 224					

Monroe, CT 06468

	Incorporation by reference of added pages (check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.)					
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed Number of pages added				
		Plus Added Pages for Papers Referred to in Item 4 Above				
		Number of pages added				
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.				
		Number of pages added				
		Plus "Assignment Cover Letter Accompanying New Application"				
		Number of pages added				
X	Sta	tement Where No Further Pages Added				
		(if no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item.				
	X	This transmittal ends with this page				